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☐   **1. Database extensions for complex domains**
DeFazio, S.; Srinivasan, J.;
Data Engineering, 1996. Proceedings of the Twelfth In
Conference on
26 Feb.-1 March 1996 Page(s):200 - 202
Digital Object Identifier 10.1109/ICDE.1996.492107
AbstractPlus | Full Text: PDF(260 KB)   **IEEE CNF**
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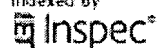
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Relevance scale

1 Replication: DB2, Oracle, or Sybase?
   Doug Stacey
   December 1995 **ACM SIGMOD Record**, Volume 24 Issue 4
   Publisher: ACM Press
   Full text available: 📄 pdf(726.69   Additional Information: full citation, abstract, citings, inde
                       KB)   terms

   Is replication salvation or the devil in disguise? Here's what three implement
   tell us

2 Implementing crash recovery in QuickStore: a performance study
   Seth J. White, David J. DeWitt
   May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD
        international conference on Management of data SIGMOD '95,**
        Volume 24 Issue 2
   Publisher: ACM Press
   Full text available: 📄 pdf(1.67   Additional Information: full citation, abstract, references,
                       MB)   index terms

   Implementing crash recovery in an Object-Oriented Database System (OODE
   raises several challenging issues for performance that are not present in trac
   DBMSs. These performance concerns result both from significant architectura
   differences between OODBMSs and traditional database systems and differer
   OODBMS's target applications. This paper compares the performance of seve
   alternative approaches to implementing crash recovery in an OODBMS based
   client-server architecture. ...

3 Extending a persistent object framework to enhance enterprise application server performa
   John Grundy, Steve Newby, Thomas Whitmore, Peter Grundeman
   January 2002 **Australian Computer Science Communications , Proceedings
        the 13th Australasian database conference - Volume 5 ADC**

Volume 24 Issue 2
Publisher: Australian Computer Society, Inc., IEEE Computer Society Press
Full text available: pdf(795.08   Additional Information: full citation, abstract, references,
KB)   by, index terms

High-volume transaction processing speed is critical for adequate performan(
many enterprise application servers. We describe our experiences using an o
oriented persistency framework to achieve greatly enhanced server response
the transparent use of main-memory database technology. We took an appli(
server whose data persistency is abstracted via a persistent object framewor
replaced a version of the framework using a relational database for persisten
with one that uses ...

Keywords: main-memory databases, persistent object frameworks, transac
processing performance

4 Parallel database processing on a 100 Node PC cluster: cases for decision support query
processing and data mining
Takayuki Tamura, Masato Oguchi, Masaru Kitsuregawa
November 1997 **Proceedings of the 1997 ACM/IEEE conference on
Supercomputing (CDROM) Supercomputing '97**
Publisher: ACM Press
Full text available: pdf(157.74   Additional Information: full citation, abstract, references,
KB)

We developed a PC cluster system consists of 100 PCs. Each PC employs the
200MHz Pentium Pro CPU and is connected with others through an ATM swit(
picked up two kinds of data intensive applications. One is decision support q(
processing. And the other is data mining, specifically, association rule minin(
high speed network, ATM technology has recently come to be a de facto star
While other high performance network standards are also available, ATM net
are widely used from ...

5 Database privacy and security: Threats to privacy in the forensic analysis of database syst(
Patrick Stahlberg, Gerome Miklau, Brian Neil Levine
June 2007 **Proceedings of the 2007 ACM SIGMOD international conferenc
Management of data SIGMOD '07**
Publisher: ACM Press
Full text available: pdf(457.59   Additional Information: full citation, abstract, references,
KB)   terms

The use of any modern computer system leaves unintended traces of expire(
and remnants of users' past activities. In this paper, we investigate the unin(
persistence of data stored in database systems. This data can be recovered (
forensic analysis, and it poses a threat to privacy.

First, we show how data remnants are preserved in database table storage, (

transaction log, indexes, and other system components. Our evaluation of se real database systems reveals that d ...

Keywords: forensics, privacy, transparency

6   Sizing DB2 UDB® servers for business intelligence workloads
    Ted J. Wasserman, Patrick Martin, Haider Rizvi
    October 2004 **Proceedings of the 2004 conference of the Centre for Advan Studies on Collaborative research CASCON '04**
    Publisher: IBM Press
    Full text available: pdf(178.24   Additional Information: full citation, abstract, references,
                           KB)   index terms

    Computer system sizing involves estimating the amount of hardware resourc needed to support a new application that has not been run in a production environment. Sizing assumes that little system environment information or performance measurements are available for the specific workload, thus a si: expert must use extrapolations from similar workloads, industry benchmarks rules-of-thumb, and hardware performance guidelines to determine the type quantity of resources required. In this ...

7   Recovery management in QuickSilver
    Rober Haskin, Yoni Malachi, Gregory Chan
    February 1988 **ACM Transactions on Computer Systems (TOCS),** Volume 6
                  1
    Publisher: ACM Press
    Full text available: pdf(2.21   Additional Information: full citation, abstract, references,
                          MB)   index terms, review

    This paper describes QuickSilver, developed at the IBM Almaden Research C which uses atomic transactions as a unified failure recovery mechanism for a client-server structured distributed system. Transactions allow failure atomic related activities at a single server or at a number of independent servers. R than bundling transaction management into a dedicated language or recover object manager, Quicksilver exposes the basic commit protocol and log rec ..

8   Client-server computing in mobile environments
    Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
    June 1999 **ACM Computing Surveys (CSUR),** Volume 31 Issue 2
    Publisher: ACM Press
    Full text available: pdf(233.31   Additional Information: full citation, abstract, references,
                          KB)   index terms, review

    Recent advances in wireless data networking and portable information applia have engendered a new paradigm of computing, called mobile computing, in users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime

research addressing information access in mobile environments has prolifera
this survey, we provide a concrete framework and categorization of the varic
way ...

Keywords: application adaptation, cache invalidation, caching, client/server
dissemination, disconnected operation, mobile applications, mobile client/ser
mobile compuing, mobile data, mobility awareness, survey, system applicatic

9 Crash recovery in client-server EXODUS

Michael J. Franklin, Michael J. Zwilling, C. K. Tan, Michael J. Carey, David J. De'
June 1992 **ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD
international conference on Management of data SIGMOD '92,**
Volume 21 Issue 2

Publisher: ACM Press

Full text available: pdf(1.50   Additional Information: full citation, abstract, references,
MB)   index terms

In this paper, we address the correctness and performance issues that arise
implementing logging and crash recovery in a page-server environment. The
result from two characteristics of page-server systems: 1) the fact that data
modified and cached in client database buffers that are not accessible by the
server, and 2) the performance and cost trade-offs that are inherent in a clie
server environment. We describe a recovery system that we have implement
the client-ser ...

10 Integrating an object server with other worlds

Alan Purdy, Bruce Schuchardt, David Maier
January 1987 **ACM Transactions on Information Systems (TOIS),** Volume !
1

Publisher: ACM Press

Full text available: pdf(1.61   Additional Information: full citation, abstract, references,
MB)   index terms, review

Object-oriented database servers are beginning to appear on the commercia
market in response to a demand by application developers for increased moc
power in database systems. Before these new servers can enhance the prodt
of application designers, systems designers must provide simple interfaces tc
from both procedural and object-oriented languages. This paper first describi
successful interface between an object server and two procedural languages
and Pascal). Beca ...

11 An overview of data warehousing and OLAP technology

Surajit Chaudhuri, Umeshwar Dayal
March 1997 **ACM SIGMOD Record,** Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(101.60   Additional Information: full citation, abstract, citings, inde

KB)   terms

Data warehousing and on-line analytical processing (OLAP) are essential eler
of decision support, which has increasingly become a focus of the database
industry. Many commercial products and services are now available, and all (
principal database management system vendors now have offerings in these
Decision support places some rather different requirements on database
technology compared to traditional on-line transaction processing application
paper provides an overview ...

12 BASE: Using abstraction to improve fault tolerance

Miguel Castro, Rodrigo Rodrigues, Barbara Liskov
August 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 :
3
Publisher: ACM Press
Full text available: pdf(438.18   Additional Information: full citation, abstract, references,
               KB)   index terms

Software errors are a major cause of outages and they are increasingly explc
malicious attacks. Byzantine fault tolerance allows replicated systems to mas
some software errors but it is expensive to deploy. This paper describes a
replication technique, BASE, which uses abstraction to reduce the cost of Byz
fault tolerance and to improve its ability to mask software errors. BASE redu
cost because it enables reuse of off-the-shelf service implementations. It imp
availability ...

Keywords: Byzantine fault tolerance, N-version programming, asynchronou
systems, proactive recovery, state machine replication

13 Implementing sorting in database systems

Goetz Graefe
September 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 3
Publisher: ACM Press
Full text available: pdf(518.63   Additional Information: full citation, abstract, references,
               KB)   terms

Most commercial database systems do (or should) exploit many sorting techi
that are publicly known, but not readily available in the research literature. T
techniques improve both sort performance on modern computer systems anc
ability to adapt gracefully to resource fluctuations in multiuser operations. Th
survey collects many of these techniques for easy reference by students,
researchers, and product developers. It covers in-memory sorting, disk-base
external sorting, and cons ...

Keywords: Key normalization, asynchronous read-ahead, compression, dyn
memory resource allocation, forecasting, graceful degradation, index operati
key conditioning, nested iteration

14 Concurrency control in collaborative hypertext systems

Uffe Kock Wiil, John J. Leggett

December 1993 **Proceedings of the fifth ACM conference on Hypertext HYPERTEXT '93**

Publisher: ACM Press

Full text available: 🗎 pdf(1.05 MB)   Additional Information: full citation, references, citings, ir terms

Keywords: collaborative work, concurrency control, distributed hypertext systems, events, extensibility, hyperbases, open architectures, supporting technologies, transaction management, user-controlled locking, version cont

15 BASE: using abstraction to improve fault tolerance

Rodrigo Rodrigues, Miguel Castro, Barbara Liskov

October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of th eighteenth ACM symposium on Operating systems principle SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: 🗎 pdf(1.47 MB)   Additional Information: full citation, abstract, references, index terms

Software errors are a major cause of outages and they are increasingly expl malicious attacks. Byzantine fault tolerance allows replicated systems to mas some software errors but it is expensive to deploy. This paper describes a replication technique, BASE, which uses abstraction to reduce the cost of By fault tolerance and to improve its ability to mask software errors. BASE redu cost because it enables reuse of off-the-shelf service implementations. It imp availability ...

16 Design of the Mneme persistent object store

J. Eliot B. Moss

April 1990 **ACM Transactions on Information Systems (TOIS)**, Volume 8 Is

Publisher: ACM Press

Full text available: 🗎 pdf(3.22 MB)   Additional Information: full citation, abstract, references, index terms, review

The Mneme project is an investigation of techniques for integrating programr language and database features to provide better support for cooperative, information-intensive tasks such as computer-aided software engineering. Th project strategy is to implement efficient, distributed, persistent programmin languages. We report here on the Mneme persistent object store, a fundame component of the project, discussing its design and initial prototype. Mneme objects

17 XML: An XML transaction processing benchmark

Matthias Nicola, Irina Kogan, Berni Schiefer

June 2007 **Proceedings of the 2007 ACM SIGMOD international conferenc Management of data SIGMOD '07**

Publisher: ACM Press

Full text available: pdf(241.73   Additional Information: full citation, abstract, references, KB)   terms

XML database functionality has been emerging in "XML-only" databases as w in the major relational database products. Yet, there is no industry standard database benchmark to evaluate alternative implementations. The research community has proposed several benchmarks which are all useful in their respective scope, such as evaluating XQuery processors. However, they do n to evaluate a database system in its entirety and do not represent all relevar characteristics of a real-wor ...

Keywords: SQL/XML, TPoX, XML, XQuery, benchmark, database

18 Session 3: User-level transactional programming in Haskell

Peter Thiemann

September 2006 **Proceedings of the 2006 ACM SIGPLAN workshop on Hasl Haskell '06**

Publisher: ACM Press

Full text available: pdf(212.38   Additional Information: full citation, abstract, references, KB)   terms

Correct handling of concurrently accessed external resources is a demanding problem in programming. The standard approaches rely on database transac or concurrency mechanisms like locks. The paper considers two such resourc global variables and databases, and defines transactional APIs for them in Hi The APIs provide a novel flavor of *user-level transactions* which are particula suitable in the context of web-based systems. This suitability is demonstrate providing a s ...

19 Byzantine fault tolerance: Tolerating byzantine faults in transaction processing systems usi commit barrier scheduling

Ben Vandiver, Hari Balakrishnan, Barbara Liskov, Sam Madden

October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**

Publisher: ACM Press

Full text available: pdf(390.75   Additional Information: full citation, abstract, references, KB)   terms

This paper describes the design, implementation, and evaluation of areplicati scheme to handle Byzantine faults in transaction processing database systen scheme compares answers from queries and updates on multiple replicas wh unmodified, off-the-shelf systems, to provide a single database that is Byzan

fault tolerant. The scheme works when the replicas are homogeneous, but it allows heterogeneous replication in which replicas come from different vendc Heterogeneous ...

Keywords: byzantine fault tolerance, databases, state machine replication

20 The 007 Benchmark

Michael J. Carey, David J. DeWitt, Jeffrey F. Naughton

June 1993 **ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data SIGMOD '93**, Volume 22 Issue 2

Publisher: ACM Press

Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, index terms

The OO7 Benchmark represents a comprehensive test of OODBMS performar this paper we describe the benchmark and present performance results from implementation in three OODBMS systems. It is our hope that the OO7 Benc will provide useful insight for end-users evaluating the performance of OODB systems; we also hope that the research community will find that OO7 provic database schema, instance, and workload that is useful for evaluating new techniques and algorithms for ...

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